RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Application Serial Number: 10/563,57

TFWF

19-6

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 01/19/2006
PATENT APPLICATION: US/10/563,570 TIME: 13:23:31

Input Set : A:\059742-5001-US Sequence Listing.txt

Output Set: N:\CRF4\01192006\J563570.raw

3 <110> APPLICANT: David, WAGNER H

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5 <120> TITLE OF INVENTION: METHODS FOR PREDICTING DEVELOPMENT OF AUTO-IMMUNE DISEASES
AND
              TREATMENT OF SAME
      8 <130> FILE REFERENCE: 059742-5001-WO
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/563,570
C--> 10 <141> CURRENT FILING DATE: 2006-01-06
     10 <150> PRIOR APPLICATION NUMBER: US 60/484,655
     11 <151> PRIOR FILING DATE: 2003-07-07
     13 <150> PRIOR APPLICATION NUMBER: PCT/US2004/021646
     14 <151> PRIOR FILING DATE: 2004-07-07
     16 <160> NUMBER OF SEQ ID NOS: 21
     18 <170> SOFTWARE: PatentIn version 3.3
     20 <210> SEO ID NO: 1
     21 <211> LENGTH: 6545
     22 <212> TYPE: DNA
     23 <213> ORGANISM: Homo sapiens
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     30 ctctttccca cccaccttgg gactcagttc tgccccagat gaaattcagc acccacatat
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     32 taaattttca gaatggaaat ttaagctgtt ccgggtgaga tcctttgaaa agacacctga
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     34 agaageteaa aaggaaaaga aggatteett tgaggggaaa eeetetetgg ageaatetee
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     36 agcagtectg gacaaggetg atggteagaa gecagteeca aeteageeat tgttaaaage
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     38 ccaccctaag ttttcaaaga aatttcacga caacgagaaa gcaagaggca aagcgatcca
     40 tcaagccaac cttcgacatc tctgccgcat ctgtgggaat tcttttagag ctgatgagca
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     42 caacaggaga tatccagtcc atggtcctgt ggatggtaaa accctaggcc ttttacgaaa
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     48 gcacaggaag tttagcagtg ccccatgtga ggtttacttc ccgaggaacg tgaccatgga
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     50 gtggcacccc cacaccat cctgtgacat ctgcaacact gcccgtcggg gactcaagag
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     52 gaagagtett cagecaaact tgeageteag caaaaaacte aaaactgtge ttgaccaage
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     54 aaqacaaqcc cqtcaqcqca aqaqaaqaqc tcaqqcaaqg atcagcagca aggatgtcat
     56 gaagaagatc gccaactgca gtaagataca tcttagtacc aagctccttg cagtggactt
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     72 caaagaagaa ggtggagatg tgaagtccgt gtgcatgacc ttgttcctgc tggctctgag
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     74 ggcgaggaat gagcacaggc aagctgatga gctggaggcc atcatgcagg gaaagggctc
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     76 tggcctgcag ccagctgttt gcttggccat ccgtgtcaac accttcctca gctgcagtca
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Output Set: N:\CRF4\01192006\J563570.raw

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82 gccacctctg	aagaatgtgt	cttccagcac	tgatgttggc	attattgatg	ggctgtctgg	1740
84 actatcatcc	tctgtggatg	attacccagt	ggacaccatt	gcaaagaggt	tccgctatga	1800
86 ttcagctttg	gtgtctgctt	tgatggacat	ggaagaagac	atcttggaag	gcatgagatc	1860
88 ccaagacctt	gatgattacc	tgaatggccc	cttcactgtg	gtggtgaagg	agtcttgtga	1920
90 tggaatggga						1980
92 ccgtttttca						2040
94 atttgaagaa						2100
96 agatgagtct						2160
98 ggccatgaag	agcagtgaat	taatgcttga	gctgggaggc	attctccgga	ctttcaagtt	2220
100 catcttcag						2280
102 ttctggctc						2340
104 tcttgtctt						2400
106 gcgttccaa						2460
108 agctaaacc						2520
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112 tgcttccaa						2640
114 gatgaacct						2700
116 agagactgt						2760
118 ggagctgat						2820
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122 ttctacgaa						2940
124 ggcccatgt						3000
126 aaatgagtc						3060
128 atgctatga						3120
130 gaagtttat						3180
132 aagcttagg						3240
134 ttaagtagg						3300
136 tgagggctt						3360
138 taggttgga						3420
140 tgcttgagg						3480
142 agtaactca						3540
144 ggggagctg						3600
146 ttggtcttg						3660
148 ataagtgcc						3720
150 gcttgctat						3780
152 acagcatga						3840
154 gttacatca						3900
154 getacatea						3960
158 aatacacct						4020
160 atcagaage						4080
162 caaatttag						4140
_	_	_				4200
164 gcttgatgt		_	_			4200
166 atgaaacct						4320
168 gttattctt						4320
170 accttgtat						4440
172 ttaacattt						4500
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PATENT APPLICATION: US/10/563,570 TIME: 13:23:32

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178 ccaaagccct tcttctttcc accacaaatt aatcactatg tttataaggt agtatcagaa
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180 tttttttagg attcacaact aatcactata gcacatgacc ttgggattac atttttatgg
                                                                         4680
182 ggcaggggta agcggctttt aaatcatttg tgtgctctgg ctcttttgat agaagaaagc
                                                                         4740
184 aacacaaaag ctccaaaggg ccccctaacc ctcttgtggc tccagttatt tggaaactat
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186 gatctgcatc cttaggaatc tgggatttgc cagttgctgg caatgtagag caggcatgga
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188 attttatatg ctagtgagtc ataatgatat gttagtgtta attagttttt cttcctttga
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190 ttttattqqc cataattqct actcttcata cacaqtatat caaaqaqctt gataatttag
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192 ttgtcaaaag tgcatcggcg acattatctt taattgtatg tatttggtgc ttcttcaggg
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194 attgaactca gtatctttca ttaaaaaaca cagcagtttt ccttgctttt tatatgcaga
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198 tttgaaaact cttggttttg tttttttgga aatgagtggg ccactaagcc acactttccc
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                                                                         5580
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228 tgggaggaat aaaccattat ttggatgcag gtggtttttg attgcaaata tgtgtgtgtc
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234 cctcagaaat catttttggt gattattttt tgttttgtag aattgcactt cagtttattt
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236 tottacaaat aacottacat tttgtttaat ggottccaag agootttttt tttttgtatt
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238 tcagagaaaa ttcaggtacc aggatgcaat ggatttattt gattcagggg acctgtattt
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240 ccatgtcaaa tgttttcaaa taaaatgaaa tatgagtttc aatacttttt atattttaat
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249 <212> TYPE: PRT
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263
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266 Lys Lys Asp Ser Phe Glu Gly Lys Pro Ser Leu Glu Gln Ser Pro Ala
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270 Val Leu Asp Lys Ala Asp Gly Gln Lys Pro Val Pro Thr Gln Pro Leu
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278	Ala	Arg	Gly	Lys	Ala	Ile	His	Gln	Ala	Asn	Leu	Arg	His	Leu	Cys	Arg
279				100					105					110		
282	Ile	Cys	Gly	Asn	Ser	Phe	Arg	Ala	Asp	Glu	His	Asn	Arg	Arg	Tyr	Pro
283			115					120					125			
286	Val	His	Gly	Pro	Val	Asp	Gly	Lys	Thr	Leu	Gly	Leu	Leu	Arg	Lys	Lys
287		130					135					140				
290	Glu	Lys	Arg	Ala	Thr	Ser	Trp	Pro	Asp	Leu		Ala	Lys	Val	Phe	
	145		_		_	150	_			_	155		_	. =	_	160
	Ile	Asp	Val	Lys		Asp	Val	Asp	Ser		His	Pro	Thr	Glu		Cys
295	•	_	_	_	165			•	_	170		_	_	_ ~	175	_
	His	Asn	Cys	-	Ser	Ile	Met	His	-	Lys	Phe	Ser	Ser		Pro	Cys
299			_	180	_	_	_		185			_	•	190		_,
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303	_	_	195	_	~-	_	_	200		_	_	~1	205	-	•	
	Pro		Cys	Asp	ile	Cys		Thr	Ala	Arg	Arg	_	Leu	ьys	Arg	гàг
307		210	~1	D	*	•	215		C	T	T	220	*	mb	17-7	T
		Leu	GIN	Pro	Asn	Leu	GIN	Leu	ser	ьys		Leu	ьys	Thr	vai	
	225	a1	21-	7	~1 - -	230	7	~1 	7	T	235	7	77.	C1 =	7.7.	240
	Asp	GIII	АТА	AIG		Ala	Arg	GIII	Arg	ьуs 250	Arg	Arg	Ald	GIII	255	Arg
315	т1.	C0*	C0x	Tvc	245	Val	Mot	Tvc	Tara		ת דת	7 cn	Cva	Cor		Tla
319	116	ser	ser	260	Asp	vai	Mec	пур	265	116	Ala	ASII	Cys	270	цуѕ	116
	uic	T.011	Cor		Tare	Leu	T.011	Δla		λen	Dhe	Dro	Glu		Dhe	Val
323	1115	Dea	275	1111	цys	ЦСи	шси	280	Val	тор	1110	110	285		1	· u _
	Lvs	Ser		Ser	Cvs	Gln	Tle		Glu	His	Tle	Len		Asp	Pro	Val
327	Lys	290	110	001	Cyb	01	295	Cyb	Olu			300	1114			
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		Lvs	Val	Met	Glv	Ser	Tvr	Cvs	Pro	Ser	Cvs	Arq	Tvr	Pro	Cvs	Phe
335					325		- 2	- 2		330	- 2		_		335	
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339			-	340					345					350		
342	Ser	Leu	Met	Val	Lys	Cys	Pro	Ala	Lys	Glu	Cys	Asn	Glu	Glu	Val	Ser
343			355		_	_		360					365			
346	Leu	Glu	Lys	Tyr	Asn	His	His	Ile	Ser	Ser	His	Lys	Glu	Ser	Lys	Glu
347		370					375					380				
350	Ile	Phe	Val	His	Ile	Asn	Lys	Gly	Gly	Arg	Pro	Arg	Gln	His	Leu	Leu
351	385					390					395					400
354	Ser	Leu	Thr	Arg	Arg	Ala	Gln	Lys	His	Arg	Leu	Arg	Glu	Leu	Lys	Leu
355					405					410					415	
358	Gln	Val	Lys	Ala	Phe	Ala	Asp	Lys	Glu	Glu	Gly	Gly	Asp	Val	Lys	Ser
359				420					425					430		
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375					485	_	_	•		490	_	_			495	-
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379	_	_	_	500	_	'	•	_,	505	_	~ 3	_	_	510	_	_
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383		_	515	_		_		520			_	~7	525	_	~7	_
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387	_	530	_		_	_	535	_		_	_,	540		_	_	-1
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395		_	~-7	~7	565	_	_	~7		570		•			575	~1
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399	_	-1	mı.	580	**- 1		.	~ 1	585	G	3	a 1	14-4	590	3	77-7
	Pro	Pne		Val	vai	vai	ьys		ser	Cys	Asp	GIY		GIY	Asp	vai
403	_	~1	595		~1		~ 1	600	** - 7	**- 3	D	~ 1	605	3 T =	77-7	3
			ьys	His	GLY	ser		Pro	vaı	vaı	Pro		ьys	Ala	vai	Arg
407		610	51.	— 1			615	-1.	m)	- 1 -		620	0	a	~1	3
		ser	Pne	Thr	тте		ьys	ше	Thr	TTE		HIS	ser	ser	GIII	
	625	•	**- 7	D1	~1	630		T	D	3	635	a 1	T	C		640
	vaı	гĀЗ	vaı	Phe		GIŲ	Ата	ьуѕ	Pro		ser	GIU	Leu	Cys		гуѕ
415	D	· .	~	T	645	T	77.	7	a 1	650	7.00	77.5 ~	~1	mb	655	mh-s-
	Pro	ьeu	Cys	Leu	Met	ьeu	Ата	Asp		ser	Asp	HIS	GIU	670	ьeu	IIII
419	7.7.	T1.	T	660	Dwa	T 011	T]_	77.	665	7. ~~~	C1	777	Mot		C0*	Co~
	Ala	ше		Ser	Pro	Leu	тте		GIU	Arg	GIU	Ala	Met 685	ьуѕ	ser	ser
423	~1	T 011	675	Leu	C1.,	T 011	C1.,	680	T10	T 011	7.20	Thr		Tard	Dhe	Tla
	GIU	690	Mec	nea	Giu	пеп	695	GIY	116	neu	Arg	700	FIIC	пуъ	FILE	116
427	Dho		C1	Thr	C1	Пага		C1.,	Tara	T 011	1751		Clu	นวไ	Glu	Glar
	705	Arg	Gry	1111	GIY	710	Asp	Giu	цуъ	пеа	715	тт	Giu	vai	GIU	720
		Clu	בות	Ser	Glv		Wal.	Тугт	Tla	Cve		T.011	Cvc	Δen	Δla	
435	шец	GIU	Αια	SET	725	SCI	Vai	TYT	116	730	1111	пси	Cys	лор	735	****
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439	Arg	Deu	GIU	740	DCI	GIII	TO II	пси	745	1110	11.1.0	DCI		750	**** 9	001
	Hic	Δla	Glu	Asn	T.eu	Glu	Ara	Tvr		Val	Trn	Ara	Ser		Pro	Tvr
443	1115	niu	755	71011		014	1119	760	014				765			-1-
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447		770	JCI	V 41	O_u	Q_u	775	9	1.00			780	U -1			
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	785	0				790	- ~-				795				-12	800
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459			-1-	820					825	-1-			3	830	3	F
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463			835			-1-		840	3	-1-	_1 -		845		-1-	-
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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VERIFICATION SUMMARY

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Input Set : A:\059742-5001-US Sequence Listing.txt

Output Set: N:\CRF4\01192006\J563570.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:942 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0 L:965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0 L:988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0 L:1011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0 L:1034 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0 L:1057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0 L:1080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0 L:1103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0 L:1126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0 L:1149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0 L:1172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0 L:1195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0 L:1218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0